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Listing of Claims:

- 1. (Original) A method of treating a disorder of a subject's heart involving loss of cardiomyocytes which comprises administering to the subject a composition comprising an amount of a human stromal-derived factor-1 and an amount of a human granulocyte-colony stimulating factor, the composition being administered in an amount effective to cause proliferation of cardiomyocytes within the subject's heart so as to thereby treat the disorder.
- 2. (Cancelled).
- 3. (Cancelled).
- 4. (Cancelled).
- 5. (Cancelled).
- 6. (Cancelled).
- 7. (Cancelled).
- 8. (Cancelled).

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- 9. (Cancelled).
- 10. (Original) A method of treating a subject suffering from a disorder of a tissue involving loss and/or apoptosis of cells of the tissue which comprises administering to the subject a composition comprising an amount of an agent which induces phosphorylation and/or activation of protein kinase B, the composition being administered in an amount effective to cause proliferation of the cells and/or inhibit apoptosis of the cells of the tissue within the subject so as to thereby treat the disorder.
- 11. (Cancelled)
- 12. (Cancelled)
- 13. (Cancelled)
- 14. (Original) The method of claim 10, wherein the tissue is heart tissue and the cells are cardiomyocytes.
- 15. (Cancelled)
- 16. (Original) The method of claim 10, wherein the tissue is heart

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tissue and the cells are progenitors of cardiomyocytes or stem cells that differentiate to cardiomyocytes.

- 17. (Original) The method of claim 10, wherein the tissue is heart muscle, striated muscle, liver, kidney, neuronal or gastrointestinal tissue.
- 18. (Original) The method of claim 10, wherein the agent is insulin, endothelin-1, urocrotin, cardiotropin-1, erythropoietin, leukemia inhibitory factor-1, tumor necrosis factor-alpha.
- 19. (Original) The method of claim 10, further comprising administering an amount of one or more of a human granulocyte-colony stimulating factor, a human stromal-derived factor-1, a human granulocyte macrophage-colony stimulating factor, a human interleukin-8, a human vascular endothelial growth factor, a human fibroblast growth factor, a human Gro family chemokine, human endothelial progenitor cells, or a proangiogenic agent, the amount, or if appropriate amounts, effective to cause proliferation of the cells and/or inhibit apoptosis of the cells of the tissue of the subject so as to thereby treat the disorder.
- 20. (Original) A composition comprising a human stromal-derived factor-1 and a human granulocyte-colony stimulating factor.

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- 21. (Cancelled)
- 22. (Cancelled)
- 23. (Cancelled)
- 24. (Original) A method of treating a subject suffering from a disorder of a tissue involving loss and/or apoptosis of cells of the tissue which comprises administering to the subject a composition comprising an amount of an agent which induces phosphorylation and/or activation of an extracellular signal-regulated protein kinase, the composition being administered in an amount effective to inhibit apoptosis and/or cause proliferation of the cells of the tissue within the subject so as to thereby treat the disorder.
- 25. (Cancelled)
- 26. (Cancelled)
- 27. (Cancelled)
- 28. (Cancelled)
- 29. (Cancelled)

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- 30. (Cancelled)
- 31. (Cancelled)
- 32. (Cancelled)
- 33. (Cancelled)
- 34. (Cancelled)
- 35. (Currently Amended) A method of treating a subject suffering from a disorder of a tissue involving loss and/or apoptosis of cells of the tissue which comprises administering to the subject a composition comprising an amount of an agent which induces activation of CXCR4, the composition being administered in an amount effective to cause proliferation of the cells and/or inhibit apoptosis of the cells of the tissue within the subject so as to thereby treat the disorder subject.
- 36. (Currently Amended) The method of claim 36 35, wherein the tissue is heart tissue and the cells are cardiomyocytes.
- 37. (Currently Amended) The method of claim 36, wherein the agent

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is administered intramyocardially or intracoronarily via <u>(a)</u> a stent, <u>(b)</u> a scaffold, or <u>(c)</u> a slow-release formulation.

- 38. (Cancelled).
- 39. (Cancelled).
- 40. (Cancelled).
- 41. (Cancelled).
- 42. (Cancelled).
- 43. (New) The method of claim 35, wherein the agent is administered intramyocardially.
- 44. (New) The method of claim 35, wherein the agent is administered systemically.
- 45. (New) The method of claim 35, wherein the agent comprises human stromal-derived factor-1.
- 46. (New) The method of claim 45, wherein the human stromal-derived factor-1 is human stromal-derived factor- 1α .

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- 47. (New) The method of claim 45, wherein the human stromal-derived factor-1 is human stromal-derived factor-1 β .
- 48. (New) The method of claim 45, wherein the human stromal-derived factor-1 is human stromal-derived factor-1γ.
- 49. (New) The method of claim 36, wherein the disorder comprises myocardial infarction, congestive heart failure, chronic ischemia, ischemic disease, diabetic heart disease or cardiomyopathy.
- 50. (New) The method of claim 36, wherein the disorder comprises ischemic disease.